ITA 9008(86)-1

CURRENT INDUSTRIAL REPORTS

Copper Controlled Materials

FIRST QUARTER 1986

ITA9008(86)-1
Issued May 1986

U.S. Department of Commerce
BUREAU OF THE CENSUS
INTERNATIONAL TRADE ADMINISTRATION

The statistics in this publication are based on a survey of all known producers of brass mill products, and a 95-percent sample of producers of wire mill products. The figures represent total U.S. shipments of copper-base and foundry products.

A description of the survey methodology and related information appears on page 4.

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Table 1. SUMMARY OF SHIPMENTS OF COPPER-BASE MILL AND FOUNDRY PRODUCTS: 1986 AND 1985

(Millions of pounds--metal weight)

Quarter and year	Total	Brass mill products		Copper wire mill products[1]			Brass and bronze foundry products[3]
		Alloyed	Unalloyed	Bare wire[2]	Insulated communication wire	Other insulated wire	
1986							
First quarter	1,189	369	253	29	59	341	138
1985							
Total[4]	r4,728	1,366	997	119	293	r1,412	541
Fourth quarter[4]	r1,104	316	233	30	68	r329	128
Third quarter	1,147	323	239	32	76	349	128
Second quarter	1,239	352	265	28	r90	357	147
First quarter	1,238	375	260	29	59	377	138

Note: Detail may not add to totals due to independent rounding.

rRevised by 5 percent or more from previously published figures.

[1]Represents copper content weight, rather than metal weight.
[2]Represents uninsulated, bare, tinned, and/or alloy coated wire.
[3]Source: Bureau of the Census, Current Industrial Report Series, M33E, Nonferrous Castings.
[4]Revised data for fourth quarter 1985 precludes any previously released data for fourth quarter 1985 represented in the summary for 1985, issued April 1986.

Address inquiries concerning these figures to U.S. Department of Commerce, International Trade Administration, Materials Division, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Pamela Glekas, (301) 763-2529.
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Table 2. SHIPMENTS OF COPPER-BASE MILL AND FOUNDRY PRODUCTS

(Millions of pounds--metal weight)

Product description	First quarter 1 86	Fourth quarter 1985[1]
Total shipments	1,189	r1,104
Copper-base mill products	622	549
Copper-base alloy:		
Sheet and strip[2]	145	126
Rod, bar, and wire	194	169
Tube and pipe	30	21
Unalloyed copper:		
Sheet and strip	49	42
Rod, bar, and wire[3]	22	22
Tube and pipe	182	169
Copper wire mill products[4]	429	r427
Bare wire[5]	29	30
Insulated communication wire	59	68
Other insulated wire	341	r329
Brass and bronze foundry products[6]	138	128

Note: Detail may not add to totals due to independent rounding.

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[1]Revised data for fourth quarter 1985 precludes any previously released data for fourth quarter 1985 represented in the summary for 1985, issued April 1986.

[2]Military ammunition cups and discs are included on a net-weight basis, i.e., excluding the weight of the webbing scrap generated in the cupping and discing.

[3]Does not include electrical wire.

[4]Reported in copper content weight rather than metal weight.

[5]Represents uninsulated, bare, tinned, and/or alloy coated wire.

[6]Source: Bureau of the Census, Current Industrial Report Series, M33E, Nonferrous Castings.

Table 3. SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF COPPER-BASE MILL AND FOUNDRY PRODUCTS: 1986 AND 1985

(Quantity in millions of pounds)

Product description[1]	Manufacturers' shipments	Exports of domestic merchandise[1,2]	Percent exports to manufacturers' shipments	Imports for consumption[1,3]	Apparent consumption[4]	Percent imports to apparent consumption
FIRST QUARTER 1986						
Copper-base mill products[5]	651	23	4	134	762	18
Brass mill products:						
Copper-base alloy:						
Sheet and strip	145	3	2	52	385	14
Rod, bar, and wire	194	3	2			
Tube and pipe	30	3	10	16	43	37
Unalloyed copper:						
Sheet and strip	49	5	10	21	85	25
Rod, bar, and wire	22	2	9			
Tube and pipe	182	2	1	24	204	12
Copper wire mill products, bare wire	29	5	17	21	45	47
FOURTH QUARTER 1985						
Copper-base mill products[5]	579	20	3	99	658	15
Brass mill products:						
Copper-base alloy:						
Sheet and strip	126	3	2	47	336	14
Rod, bar, and wire	169	3	2			
Tube and pipe	21	3	14	14	32	44
Unalloyed copper:						
Sheet and strip	42	2	5	17	78	22
Rod, bar, and wire	22	1	5			
Tube and pipe	169	3	2	15	181	8
Copper wire mill products, bare wire	30	5	17	6	31	19

[1]For comparison of domestic manufacturers' shipment, export numbers, and import numbers for copper-base mill and foundry products, see table 4.
[2]Source: Bureau of the Census report EM 546, U.S. Exports.
[3]Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.
[4]Apparent consumption is derived by subtracting exports from the total of net shipments plus imports.
[5]This total does not include either insulated wire and cable or brass and bronze foundry products.

Table 4. COMPARISON OF DOMESTIC MANUFACTURERS' SHIPMENTS, SCHEDULE B EXPORT NUMBERS, AND TSUSA IMPORT NUMBERS FOR COPPER-BASE MILL PRODUCTS: 1986

Product description	Export number	Import number
Copper mill products:		
Copper-base alloy:		
Sheet, strip, and plate	612.3360,612.3370,612.3380	612.3400,612.3500,612.3600,612.3800,612.3920,612.3940, 612.3960,612.3982,612.3986,612.4000,612.4100,612.4300, 612.4410,612.4430,612.4510,612.4520,612.5200,612.6100,
Rod bar, and wire[1]	612.4620	612.6205,612.6290,612.6300,612.6410,612.6420,612.8100, 612.8200
Tube and pipe	613.0520,613.0530	613.0600,613.0800,613.1000,613.1100,613.1200
Unalloyed copper:		
Sheet, strip, and plate	612.3320	612.3000,612.3120,612.3140,612.3160,612.3200,
Rod, bar, and wire[1]	612.4642,612.4645	612.5000,612.6000,612.8000
Tube and pipe	613.0540,613.0550	613.0210,613.0290,613.0300,613.0400
Copper wire mill products, bare wire	612.7420,612.7440	612.7000,612.7100,612.7220,612.7240,612.7260,612.7300

[1]The import and export numbers for this line do not include wire.

DESCRIPTION OF SURVEY

Scope of Survey. This survey covers producers of selected copper controlled materials, i.e., brass mill and copper wire mill and foundry products.

Survey Methodology. The statistics in this publication on copper-base mill products were collected by mail on Bureau of the Census and International Trade Administration Form ITA9008, Copper Controlled Materials. The survey panel is based on a list of all known producers of copper-base mill shapes supplied by the International Trade Administration (ITA), Department of Commerce. It also includes manufacturers who produce about 95 percent of wire mill products based on studies made by ITA. The data for wire mill products include estimates for small producers in order to represent 100 percent coverage. Approximately 90 companies are included in the mail panel.

Also included in this publication are estimates for foundry products, which are derived from Current Industrial Reports Series M33E, Nonferrous Castings. A description of the methodology for the survey from which these data are derived can be found in the January 1986 publication for this series.

Reliability of Data. Survey error may result from several sources: (1) inability to obtain information about all cases in the survey; (2) response errors; (3) definitional difficulties; (4) differences in the interpretation of questions; (5) mistakes in recording or coding the data obtained; and (6) other errors of collection, response, coverage, and estimation for missing data. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is due to imputing data for nonrespondents, for late reporters, and for data which fail logic edits. Missing figures are imputed based on quarter-to-quarter movements shown by reporting firms. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual quarterly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is not precisely known, but is assumed to be small. The degree of uncertainty regarding the accuracy of the published data, however, increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

Revisions to Previous Period Data. Statistics for previous quarters may be revised as the result of corrected data from respondents, including the receipt of late reports for which imputations were made as described above. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

EXPLANATION OF TERMS

Shipments. Shipments include all copper-base mill product controlled materials. Both products produced by the company which owns the materials and products produced for others under toll agreements are included.

Shipments by brass and bronze foundries include both shipments for sale (to the trade) and shipments (production) for own use. Shipments for own use represents copper and copper-base alloy castings for use by the reporting company or by a subsidiary, parent, or other affiliated company. Also included are castings produced and consumed at the same location in the production of finished products.

Definitions of Copper Controlled Materials:

Copper-Base Mill Products. Products produced by rolling, drawing, and extruding copper, brass, bronze, and other copper-base alloy basic shapes. Drawing and insulating of copper wire are also included. All other intermediate shapes are excluded. An intermediate shape is any product which has been rolled, drawn, or extruded from refined copper or brass, and which will be rerolled, redrawn, insulated, or further processed into finished brass mill or copper wire mill products (or into another intermediate shape) by other producers of intermediate or finished shapes of copper controlled materials.

Controlled Materials. Domestic and imported steel, copper, aluminum, and nickel alloys, in the forms and shapes specified in DPAS regulation, whether new, remelted, rerolled, or redrawn.

Rated Order. Prime contract, subcontract, or a purchase order in support of an authorized program which requires preferential treatment in accordance with provisions of the DPAS regulation.

DPAS. Defense Priorities and Allocations System.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; on the other hand, the export and import classification system is more materials oriented. Also, there are a substantial number of imported commodities which have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to the problems mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation. There are different methods of valuation for the three types of data:

- *Domestic Output.* Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

- *Exports.* Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance and other charges to the export point.

  Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

- *Imports.* Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output. Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Low-Value Export and Import Transactions. Detailed commodity information is not included for individual export shipments valued at not more than $1,000. Generally, detailed commodity information is not included for individual import shipments valued at not more than $1,000. For textiles and textile products, gloves, footwear, and miscellaneous rubber and plastics products, detailed commodity information is not included for individual import shipments valued at not more than $250. This is believed to have only negligible effects on the statistics for the bulk of the commodities.

Manufacturers' Shipments, Not Specified by Kind. The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Exports. There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

"Direct" vs "Total" Commodity Exports and Imports. Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

Used Commodities. With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

Geographic Area of Coverage. Import and export data reflect the movement of merchandise into and out of U.S. foreign trade zones, the U.S. Virgin Islands, and the U.S. customs territory (includes the 50 States, the District of Columbia, and Puerto Rico).

RELATED REPORTS

An annual Current Industrial Report also is published in this series. The annual report summarizes quarterly figures and incorporates known revisions for both the current and previous years. It also provides a single reference copy to replace the quarterly publications.

The Bureau of the Census also publishes the following related reports:

Series	Frequency	Title
Current Industrial Reports		
M33E	Monthly	*Nonferrous Castings*
MA33L	Annual	*Insulated Wire and Cable*
Other Industrial Reports		
M3-1	Monthly	*Manufacturers' Shipments, Inventories, and Orders*
(AS)	Annually	Annual Survey of Manufactures (ASM)
(MC)	Quinquennially	Census of Manufactures
Foreign Trade Reports		
EM546	Monthly	*U.S. Exports—Schedule B—Commodity by Country*
IM145X	Monthly	*U.S. Imports for Consumption and General Imports*

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone Number
Current Industrial Report ITA9008	Pamela J. Glekas	(301) 763-2529

Subject Area	Contact	Phone Number
Manufacturers' Shipments, Inventories, and Orders	Ruth Runyan	(301) 763-2502
Census/ASM	Dale Gordon	(301) 763-7304
To order a Census Bureau publication	Customer Services (DUSD)	(301) 763-4100
Foreign Trade publication	Joyce Ware	(301) 763-5140
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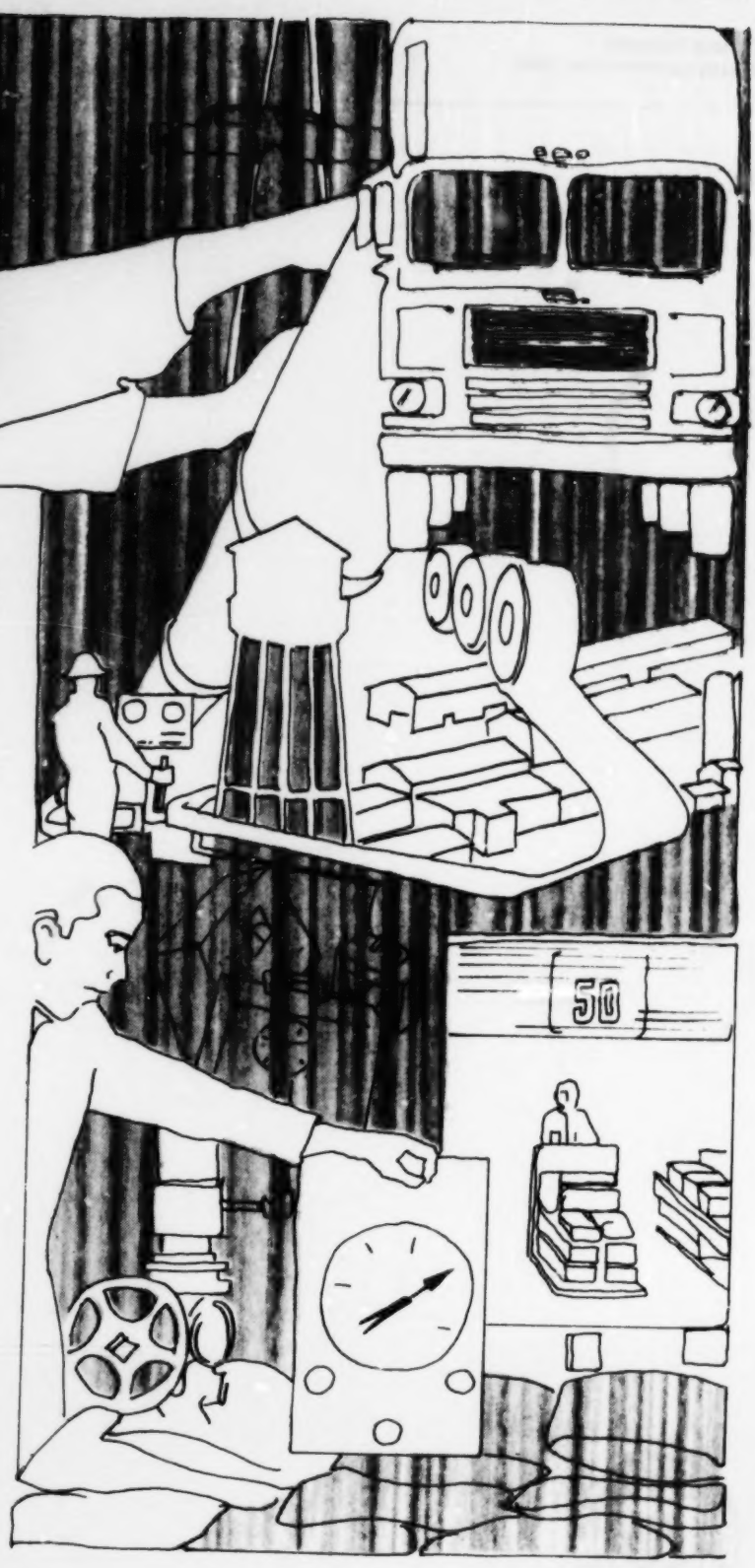
Current Industrial Reports



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- Survey of Plant Capacity
- Pollution Abatement Costs and Expenditures

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Apparel
Wood and Paper Products
Office Furniture, Supplies, and Related Products
Chemicals and Petroleum Products
Rubber and Plastics Products
Glass Products
Primary Metals
Machinery and Machinery Components
Industrial Equipment and Consumer Goods
Computer and Selected Electronic Products
Switchgear and Industrial Controls
Motors, Generators, and Electrical Distribution Equipment
Aerospace

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ITA 9008(86)-2

Copper Controlled Materials

SECOND QUARTER 1986

ITA9008(86)-2
Issued September 1986

U.S. Department of Commerce
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INTERNATIONAL TRADE ADMINISTRATION

The statistics in this publication are based on a survey of all known producers of brass mill products, and a 95-percent sample of producers of wire mill products. The figures represent total U.S. shipments of copper-base and foundry products.

A description of the survey methodology and related information may be found in the first quarter publication, ITA9008(86)-1, issued May 1986.

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Table 1. SUMMARY OF SHIPMENTS OF COPPER-BASE MILL AND FOUNDRY PRODUCTS: 1986 AND 1985

(Millions of pounds--metal weight)

Quarter and year	Total	Brass mill products		Copper wire mill products[1]			Brass and bronze foundry products[4]
		Alloyed	Unalloyed	Bare wire[2 3]	Insulated communication wire	Other insulated wire	
1986							
Second quarter	1,197	361	r219	37	r99	323	r158
First quarter	1,203	367	r223	31	r92	341	r149
1985							
Total[5]	r4,728	1,366	997	119	293	r1,412	541
Fourth quarter[5]	r1,104	316	233	30	68	r329	128
Third quarter	1,147	323	239	32	r76	349	128
Second quarter	1,239	352	265	28	r90	357	147
First quarter	1,238	375	260	29	59	377	138

Note: Detail may not add to totals due to independent rounding.

rRevised by 5 percent or more from previously published figures.

[1]Represents copper content weight, rather than metal weight.
[2]Represents uninsulated, bare, tinned, and/or alloy coated wire.
[3]The bare wire category data for 1981 through 1984 have been revised as follows: 1984, 143; 1983, 164; 1982, 190; and 1981, 248.
[4]Source: Bureau of the Census, Current Industrial Report Series, M33E, Nonferrous Castings.
[5]Fourth quarter data as shown in the summary for 1985, issued April 1986, have been revised.

Address inquiries concerning these figures to U.S. Department of Commerce, International Trade Administration, Materials Division, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Pamela Glekas, (301) 763-2529.
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Table 2. SHIPMENTS OF COPPER-BASE MILL AND FOUNDRY PRODUCTS

(Millions of pounds--metal weight)

Product description	Second quarter 1986	First quarter 1986
Total shipments	1,197	1,203
Copper-base mill products	580	590
Copper-base alloy:		
Sheet and strip[1]	150	146
Rod, bar, and wire	186	194
Tube and pipe	25	27
Unalloyed copper:		
Sheet and strip	50	49
Rod, bar, and wire[2]	23	22
Tube and pipe	146	r152
Copper wire mill products[3]	459	r464
Bare wire[4]	37	31
Insulated communication wire	99	r92
Other insulated wire	323	341
Brass and bronze foundry products[5]	158	149

Note: Detail may not add to totals due to independent rounding.

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[1]Military ammunition cups and discs are included on a net-weight basis, i.e., excluding the weight of the webbing scrap generated in the cupping and discing.
[2]Does not include electrical wire.
[3]Reported in copper content weight rather than metal weight.
[4]Represents uninsulated, bare, tinned, and/or alloy coated wire.
[5]Source: Bureau of the Census, Current Industrial Report Series, M33E, Nonferrous Castings.

Table 3. SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF COPPER-BASE MILL AND FOUNDRY PRODUCTS: 1986

(Quantity in millions of pounds)

Product description[1]	Manufacturers' shipments	Exports of domestic merchandise[1 2]	Percent exports to manufacturers' shipments	Imports for consumption[1 3]	Apparent consumption[4]	Percent imports to apparent consumption
SECOND QUARTER 1986						
Copper-base mill products[5]	617	24	4	120	713	17
Brass mill products:						
Copper-base alloy:						
Sheet and strip	150	3	2	54	383	14
Rod, bar, and wire	186	4	2			
Tube and pipe	25	3	12	16	38	42
Unalloyed copper:						
Sheet and strip	50	3	6	22	88	25
Rod, bar, and wire	23	4	17			
Tube and pipe	146	2	1	18	162	11
Copper wire mill products, bare wire	37	5	14	10	42	24
FIRST QUARTER 1986						
Copper-base mill products[5]	r621	23	4	134	732	18
Brass mill products:						
Copper-base alloy:						
Sheet and strip	146	3	2	52	386	13
Rod, bar, and wire	194	3	2			
Tube and pipe	27	3	11	16	40	40
Unalloyed copper:						
Sheet and strip	49	5	10	21	85	25
Rod, bar, and wire	22	2	9			
Tube and pipe	r152	2	1	24	r174	14
Copper wire mill products, bare wire	31	5	16	21	47	45

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[1]For comparison of domestic manufacturers' shipment, export numbers, and import numbers for copper-base mill and foundry products, see table 4 in the first quarter 1986 report, ITA9008(86)-1, issued May 1986.
[2]Source: Bureau of the Census report EM 546, U.S. Exports.
[3]Source: Bureau of the Census report IM 145-X, U.S. Imports for Consumption and General Imports.
[4]Apparent consumption is derived by subtracting exports from the total of net shipments plus imports.
[5]This total does not include either insulated wire and cable or brass and bronze foundry products.

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CURRENT INDUSTRIAL REPORTS

Copper Controlled Materials

THIRD QUARTER 1986

ITA9008(86)-3
Issued December 1986

U.S. Department of Commerce
BUREAU OF THE CENSUS
INTERNATIONAL TRADE ADMINISTRATION

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A description of the survey methodology and related information may be found in the first quarter publication, ITA9008(86)-1, issued May 1986.

Table 1. SUMMARY OF SHIPMENTS OF COPPER-BASE MILL AND FOUNDRY PRODUCTS: 1986 AND 1985

(Millions of pounds--metal weight)

Quarter and year	Brass mill products			Copper wire mill products[1]			Brass and bronze foundry products[3]
	Total	Alloyed	Unalloyed	Bare wire[2]	Insulated communication wire	Other insulated wire	
1986							
Third quarter	1,060	317	209	31	64	327	r112
Second quarter	1,136	361	220	35	72	323	r125
First quarter	1,203	367	223	31	92	341	r116
1985							
Total	4,728	1,366	997	119	293	1,412	r470
Fourth quarter	1,104	316	233	30	68	329	r111
Third quarter	1,147	323	239	32	76	349	r107
Second quarter	1,239	352	265	28	90	357	r128
First quarter	1,238	375	260	29	59	377	r124

Note: Detail may not add to totals due to independent rounding.

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[1]Represents copper content weight, rather than metal weight.
[2]Represents uninsulated, bare, tinned, and/or alloy coated wire.
[3]Source: Bureau of the Census, Current Industrial Report Series, M33E, Nonferrous Castings.

Address inquiries concerning these figures to U.S. Department of Commerce, International Trade Administration, Materials Division, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Carol Beasley (301) 763-5434.
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Table 2. SHIPMENTS OF COPPER-BASE MILL AND FOUNDRY PRODUCTS

(Millions of pounds--metal weight)

Product description	Third quarter 1986	Second quarter 1986
Total shipments	1,060	r1,136
Copper-base mill products	526	581
Copper-base alloy:		
Sheet and strip[1]	129	150
Rod, bar, and wire	164	186
Tube and pipe	24	25
Unalloyed copper:		
Sheet and strip	47	51
Rod, bar, and wire[2]	19	23
Tube and pipe	143	146
Copper wire mill products[3]	422	r430
Bare wire[4]	31	35
Insulated communication wire	64	r72
Other insulated wire	327	323
Brass and bronze foundry products[5]	112	r125

Note: Detail may not add to totals due to independent rounding.

rRevised by 5 percent or more from previously published figures.

[1]Military ammunition cups and discs are included on a net-weight basis, i.e., excluding the weight of the webbing scrap generated in the cupping and discing.
[2]Does not include electrical wire.
[3]Reported in copper content weight rather than metal weight.
[4]Represents uninsulated, bare, tinned, and/or alloy coated wire.
[5]Source: Bureau of the Census, Current Industrial Report Series, M33E, Nonferrous Castings.

Table 3. SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF COPPER-BASE MILL AND FOUNDRY PRODUCTS: 1986

(Quantity in millions of pounds)

Product description[1]	Manufacturers' shipments	Exports of domestic merchandise[1 2]	Percent exports to manufacturers' shipments	Imports for consumption[1 3]	Apparent consumption[4]	Percent imports to apparent consumption
THIRD QUARTER 1986						
Copper-base mill products[5]	557	23	4	119	653	18
Brass mill products:						
Copper-base alloy:						
Shee and strip	129	3	2	33	159	21
Rod, bar, and wire	164	4	2	15	175	9
Tube and pipe	24	1	4	15	38	39
Unalloyed copper:						
Sheet and strip	47	(Z)	9	20	80	25
Rod, bar, and wire	19	6				
Tube and pipe	143	3	2	21	161	13
Copper wire mill products, bare wire	31	6	19	15	40	38
SECOND QUARTER 1986						
Copper-base mill products[5]	616	21	3	120	715	17
Brass mill products:						
Copper-base alloy:						
Sheet and strip	150	3	2	39	186	21
Rod, bar, and wire	186	4	2	15	197	8
Tube and pipe	25	3	12	16	38	42
Unalloyed copper:						
Sheet and strip	51	(Z)	r5	23	r93	25
Rod, bar, and wire	23	4				
Tube and pipe	146	2	1	18	162	11
Copper wire mill products, bare wire	35	5	14	10	40	25

rRevised by 5 percent or more from previously published figures. (Z) Less than 500 thousand pounds.

[1]For comparison of domestic manufacturers' shipment, export numbers, and import numbers for copper-base mill and foundry products, see table 4 in the first quarter 1986 report, ITA9008(86)-1, issued May 1986.

[2]Source: Bureau of the Census report EM 546, U.S. Exports.

[3]Source: Bureau of the Census report IM 145-X, U.S. imports for Consumption and General Imports.

[4]Apparent consumption is derived by subtracting exports from the total of net shipments plus imports.

[5]This total does not include either insulated wire and cable or brass and bronze foundry products.

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ITA 9008(86)-4

CURRENT INDUSTRIAL REPORTS

Copper Controlled Materials

U.S. Department of Commerce
BUREAU OF THE CENSUS
INTERNATIONAL TRADE ADMINISTRATION

FOURTH QUARTER 1986

ITA9008(86)-4
Issued March 1987

The statistics in this publication are based on a survey of all known producers of brass mill products, and a 95-percent sample of producers of wire mill products. The figures represent total U.S. shipments of copper-base and foundry products.

A description of the survey methodology and related information may be found in the first quarter publication, ITA9008(86)-1, issued May 1986.

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Table 1. SUMMARY OF SHIPMENTS OF COPPER-BASE MILL AND FOUNDRY PRODUCTS: 1986 AND 1985

(Millions of pounds--metal weight)

Quarter and year	Brass mill products			Copper wire mill products[1]			Brass and bronze foundry products[3]
	Total	Alloyed	Unalloyed	Bare wire[2]	Insulated communication wire	Other insulated wire	
1986							
Total	4,621	1,359	959	136	345	1,311	478
Fourth quarter	r1,139	315	r254	38	r88	319	125
Third quarter	r1,143	316	r262	32	r93	328	112
Second quarter	1,136	361	220	35	72	323	125
First quarter	1,170	367	223	31	92	341	116
1985							
Total	4,657	1,366	997	119	293	1,412	470
Fourth quarter	1,087	316	233	30	68	329	111
Third quarter	1,126	323	239	32	76	349	107
Second quarter	1,220	352	265	28	90	357	128
First quarter	1,224	375	260	29	59	377	124

Note: Detail may not add to totals due to independent rounding.

rRevised by 5 percent or more from previously published figures.

[1]Represents copper content weight, rather than metal weight.
[2]Represents uninsulated, bare, tinned, and/or alloy coated wire.
[3]Source: Bureau of the Census, Current Industrial Report Series, M33E, Nonferrous Castings.

Address inquiries concerning these figures to U.S. Department of Commerce, International Trade Administration, Materials Division, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Pamela Glekas, (301) 763-2529.
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Table 2. SHIPMENTS OF COPPER-BASE MILL AND FOUNDRY PRODUCTS

(Millions of pounds--metal weight)

Product description	Fourth quarter 1986	Third quarter 1986
Total shipments	1,139	r1,143
Copper-base mill products	569	r578
Copper-base alloy:		
Sheet and strip[1]	133	129
Rod, bar, and wire	160	163
Tube and pipe	22	24
Unalloyed copper:		
Sheet and strip	46	47
Rod, bar, and wire[2]	17	19
Tube and pipe	191	r196
Copper wire mill products[3]	445	r453
Bare wire[4]	38	32
Insulated communication wire	88	r93
Other insulated wire	319	328
Brass and bronze foundry products[5]	125	112

Note: Detail may not add to totals due to independent rounding.

rRevised by 5 percent or more from previously published figures.

[1]Military ammunition cups and discs are included on a net-weight basis, i.e., excluding the weight of the webbing scrap generated in the cupping and discing.

[2]Does not include electrical wire.

[3]Reported in copper content weight rather than metal weight.

[4]Represents uninsulated, bare, tinned, and/or alloy coated wire.

[5]Source: Bureau of the Census, Current Industrial Report Series, M33E, Nonferrous Castings.

Table 3. SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF COPPER-BASE MILL AND FOUNDRY PRODUCTS: 1986

(Quantity in millions of pounds)

Product description[1]	Manufacturers' shipments	Exports of domestic merchandise[1 2]	Percent exports to manufacturers' shipments	Imports for consumption[1 3]	Apparent consumption[4]	Percent imports to apparent consumption
FOURTH QUARTER 1986						
Copper-base mill products[5]	607	28	5	110	689	16
Brass mill products:						
Copper-base alloy:						
Sheet and strip	133	3	2	32	162	20
Rod, bar, and wire	160	5	3	13	168	8
Tube and pipe	22	2	9	15	35	43
Unalloyed copper:						
Sheet and strip	46	(Z)	13	15	70	21
Rod, bar, and wire	17	8				
Tube and pipe	191	4	2	23	210	11
Copper wire mill products, bare wire	38	6	16	12	44	27
THIRD QUARTER 1986						
Copper-base mill products[5]	r610	23	4	119	r706	17
Brass mill products:						
Copper-base alloy:						
Sheet and strip	129	3	2	33	159	21
Rod, bar, and wire	163	4	2	15	174	9
Tube and pipe	24	1	4	15	38	39
Unalloyed copper:						
Sheet and strip	47	(Z)	9	20	80	25
Rod, bar, and wire	19	6				
Tube and pipe	r196	3	2	21	r214	10
Copper wire mill products, bare wire	32	6	19	15	41	37

r Revised by 5 percent or more from previously published figures. (Z) Less than 500 thousand pounds.

[1] For comparison of domestic manufacturers' shipment, export numbers, and import numbers for copper-base mill and foundry products, see table 4 in the first quarter 1986 report, ITA9008(86)-1, issued May 1986.

[2] Source: Bureau of the Census report EM 546, U.S. Exports.

[3] Source: Bureau of the Census report IM 145-X U.S. Imports for Consumption and General Imports.

[4] Apparent consumption is derived by subtracting exports from the total of net shipments plus imports.

[5] This total does not include either insulated wire and cable or brass and bronze foundry products.

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ITA 9008(86)-5

Copper Controlled Materials

SUMMARY FOR 1986

ITA9008(86)-5
Issued April 1987

U.S. Department of Commerce
BUREAU OF THE CENSUS
INTERNATIONAL TRADE ADMINISTRATION

SUMMARY OF FINDINGS

The statistics in this publication are based on a survey of all known producers of brass mill products, copper-based powder products, and a 95-percent sample of producers of wire mill products. The figures represent total U.S. shipments of copper-base mill and foundry products.

In 1986, total shipments of copper-base and foundry products decreased by 1 percent to 4.6 billion pounds from the 1985 level of 4.7 billion pounds. Copper wire mill shipments remained at the same level of 1.8 million pounds in 1986. Within this category, bare wire increased by 14 percent to 136 million pounds; insulated communication wire increased by 18 percent to 345 million pounds; and other insulated wire and cable decreased slightly to 1,311 million pounds.

A description of the survey methodology and related information appears on page 4.

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Table 1. SUMMARY OF SHIPMENTS OF COPPER-BASE MILL AND FOUNDRY PRODUCTS: 1984 TO 1986

(Millions of pounds--metal weight)

Quarter and year	Total	Brass mill products		Copper wire mill products[1]			Brass and bronze foundry products[3]
		Alloyed	Unalloyed	Bare wire[2]	Insulated communication wire	Other insulated wire	
1986							
Total	4,588	1,359	959	136	345	1,311	478
Fourth quarter	1,139	315	254	38	88	319	125
Third quarter	r1,143	316	r262	32	r93	328	112
Second quarter	1,136	361	220	35	72	323	125
First quarter	1,170	367	223	31	92	341	116
1985	4,657	1,366	997	119	293	1,412	r470
1984	5,283	1,661	1,056	r143	469	1,450	r504

Note: Detail may not add to totals due to independent rounding.

rRevised by 5 percent or more from previously published figures.

[1]Represents copper content weight, rather than metal weight.
[2]Represents uninsulated, bare tinned, and/or alloy coated wire.
[3]Source: Bureau of the Census Current Industrial Report, M33E(85)-13, Nonferrous Castings, Summary for 1985, issued August 1986.

Address inquiries concerning these figures to U.S. Department of Commerce, International Trade Administration, Materials Division, Washington, D.C. 20230, or to the Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Carol Beasley, (301) 763-5434.
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Table 2. SHIPMENTS OF COPPER-BASE MILL AND FOUNDRY PRODUCTS: 1986

(Millions of pounds--metal weight)

Product description	Total	First quarter	Second quarter	Third quarter	Fourth quarter
Total	4,588	1,170	1,136	1,143	1,139
Brass mill products[1]	2,318	590	581	578	569
Copper-base alloy:					
Sheet and strip[2]	558	146	150	129	133
Rod, bar, and wire	703	194	186	163	160
Tube and pipe	98	27	25	24	22
Unalloyed copper:					
Sheet and strip	192	49	50	47	46
Rod, bar, and wire[3]	81	22	23	19	17
Tube and pipe	686	152	147	196	191
Copper wire mill products[1 4]	1,792	464	430	453	445
Bare wire[5]	136	31	35	32	38
Insulated communication wire	345	92	72	93	88
Other insulated wire	1,311	341	323	328	319
Brass and bronze foundry products[6 7]	478	116	125	112	125

Note: Detail may not add to totals due to independent rounding.

[1]Shipments by brass mills and copper wire mills include all controlled materials orders shipped by the respondent for his own account, by other copper controlled material producers for the respondent's account, or by the responding company under toll arrangements for the account of controlled materials consumers.

[2]Military ammunition cups and discs are included on a net-weight basis, i.e., excluding the weight of the webbing scrap generated in the cupping and discing operation.

[3]Does not include electrical wire.

[4]Reported in copper content weight rather than metal weight.

[5]Wire, uninsulated, bare, tinned, and/or alloy coated.

[6]Shipments by brass and bronze foundries include both shipments for sale (to the trade) and shipments for own use. Shipments for own use represent copper and copper-base alloy castings for use by the reporting company or an affiliate, subsidiary, or parent company. Also includes castings produced and consumed at the same location in the production of finished products.

[7]Source: Bureau of the Census, Current Industrial Report, M33E(87)-1, Nonferrous Castings, issued April 1987.

Table 3A. SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF COPPER-BASE MILL AND FOUNDRY PRODUCTS: 1986

(Quantity in millions of pounds)

Product description[1]	Manufacturers' shipments	Exports of domestic merchandise[1 2]	Percent exports to manufacturers' shipments	Imports for consumption[1 3]	Apparent consumption[4]	Percent imports to apparent consumption
Total[5]	2,454	95	4	484	2,843	17
Brass mill products:						
Copper-base alloy:						
Sheet and strip	558	12	2	199	1,432	14
Rod, bar, and wire	703	16	2			
Tube and pipe	98	9	9	62	151	41
Unalloyed copper:						
Sheet and strip	193	5	3	79	328	24
Rod, bar, and wire	81	20	25			
Tube and pipe	685	11	2	86	760	11
Copper wire mill products, bare wire	136	22	16	58	172	34

See footnotes at end of table 3B.

Table 3B. SHIPMENTS, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION OF COPPER-BASE MILL AND FOUNDRY PRODUCTS: 1982 TO 1986

(Quantity in millions of pounds)

Quarter and year	Manufacturers' shipments	Exports of domestic merchandise[1,2]	Percent exports to manufacturers' shipments	Imports for consumption[1,3]	Apparent consumption[4]	Percent imports to apparent consumption
1986						
Total[5,6]	2,454	95	4	484	2,843	17
Fourth quarter	607	28	5	110	689	16
Third quarter	610	23	4	119	706	17
Second quarter	616	21	3	121	716	17
First quarter	621	23	4	134	732	18
1985[5]	2,482	117	5	463	2,828	16
1984[5]	2,860	109	4	556	3,307	17
1983[5]	2,312	115	5	386	2,583	15
1982[5]	2,238	112	5	305	2,431	13

[1]For comparison of domestic manufacturers' shipment, export numbers, and import numbers for copper-base mill and wire products, see table 4.

[2]Source: Bureau of the Census report EM 546, U.S. Exports.

[3]Source: Bureau of the Census report IM 146, U.S. Imports for Consumption.

[4]Apparent consumption is derived by subtracting exports from the total of net shipments plus imports.

[5]This total excludes insulated wire products and brass and bronze foundry products.

[6]Detail for percent exports to manufacturers shipments and percent imports to apparent consumption are not intended to add to total but rather only represent a percentage total for each quarter of 1986.

Table 4. COMPARISON OF DOMESTIC MANUFACTURERS' SHIPMENTS, SCHEDULE B EXPORT NUMBERS, AND TSUSA IMPORT NUMBERS FOR COPPER-BASE MILL PRODUCTS: 1986

Product description	Export number	Import number
Copper mill products:		
Copper-base alloy:		
Sheet, strip, and plate	612.3360,612.3370,612.3380	612.3400,612.3500,612.3600,612.3800,612.3920,612.3940, 612.3960,612.3980,612.4000,612.4100,612.4300,612.4410,
Rod, bar, and wire[1]	612.4620	612.4430,612.4510,612.4520,612.5200,612.6100,612.6200, 612.6300,612.6410,612.6420,612.8100,612.8200
Tube and pipe	613.0520,613.0530	613.0600,613.0800,613.1000,613.1100,613.1200
Unalloyed copper:		
Sheet, strip, and plate	612.3320	612.3000,612.3120,612.3140,612.3160,612.3200,
Rod, bar, and wire[1]	612.4640	612.5000,612.6000,612.8000
Tube and pipe	613.0540,613.0550	613.0200,613.0300,613.0400
Copper wire mill products, bare wire	612.7420,612.7440	612.7000,612.7100,612.7220,612.7240,612.7260,612.7300

[1]The import and export numbers for this line do not include wire.

DESCRIPTION OF SURVEY

Scope of Survey. This survey covers producers of selected copper controlled materials, i.e., brass mill and copper wire mill and foundry products.

Survey Methodology. The statistics in this publication on copper-base mill products were collected by mail on Bureau of the Census and International Trade Administration Form ITA9008, Copper Controlled Materials. The survey panel is based on a list of all known producers of copper-base mill shapes supplied by the International Trade Administration (ITA), Department of Commerce. It also includes manufacturers who produce about 95 percent of wire mill products based on studies made by ITA. The data for wire mill products include estimates for small producers in order to represent 100 percent coverage. Approximately 83 companies are included in the mail panel.

Also included in this publication are estimates for foundry products, which are derived from Current Industrial Reports Series M33E, Nonferrous Castings. A description of the methodology for the survey from which these data are derived can be found in the Summary for 1985 and January 1987 publications for this series.

Reliability of Data. Survey error may result from several sources: (1) inability to obtain information about all cases in the survey; (2) response errors; (3) definitional difficulties; (4) differences in the interpretation of questions; (5) mistakes in recording or coding the data obtained; and (6) other errors of collection, response, coverage, and estimation for missing data. These nonsampling errors also occur in complete censuses. Although no direct measurement of the biases due to nonsampling errors has been obtained, precautionary steps were taken in all phases of the collection, processing, and tabulation of the data in an effort to minimize their influence.

A major source of bias in the published estimates is due to imputing data for nonrespondents, for late reporters, and for data which fail logic edits. Missing figures are imputed based on quarter-to-quarter movements shown by reporting firms. Imputation generally is limited to a maximum of 10 percent for any one data cell. Figures with imputation rates greater than 10 percent are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, because the actual quarterly movements for nonrespondents may or may not closely agree with the imputed movements. The range of difference between the actual and imputed figures is not precisely known, but is assumed to be small. The degree of uncertainty regarding the accuracy of the published data, however, increases as the percentage of imputation increases. Figures with imputation rates above 10 percent should be used with caution.

Revisions to Previous Period Data. Quarterly data and data for prior years may be revised as the result of corrected figures from respondents or other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes

EXPLANATION OF TERMS

Shipments. Includes all copper-base mill product controlled materials. Both products produced by the company which owns the materials and products produced for others under toll agreements are included.

Shipments by brass and bronze foundries include both shipments for sale (to the trade) and shipments (production) for own use. Shipments for own use represents copper and copper-base alloy castings for use by the reporting company or by a subsidiary, parent, or other affiliated company. Also included are castings produced and consumed at the same location in the production of finished products.

Definitions of Copper Controlled Materials:

Copper-Base Mill Products. Products produced by rolling, drawing, and extruding copper, brass, bronze, and other copper-base alloy basic shapes. Drawing and insulating of copper wire are also included. All other intermediate shapes are excluded. An intermediate shape is any product which has been rolled, drawn, or extruded from refined copper or brass, and which will be rerolled, redrawn, insulated, or further processed into finished brass mill or copper wire mill products (or into another intermediate shape) by other producers of intermediate or finished shapes of copper controlled materials.

Controlled Materials. Domestic and imported steel, copper, aluminum, and nickel alloys, in the forms and shapes specified in DPAS regulation, whether new, remelted, rerolled, or redrawn.

Rated Order. Prime contract, subcontract, or a purchase order in support of an authorized program which requires preferential treatment in accordance with provisions of the DPAS regulation.

DPAS. Defense Priorities and Allocations System.

COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

The Standard Industrial Classification (SIC) system used for domestic output and the statistical export and import commodity classifications were developed independently. This results in considerable difficulty in comparing the three types of data for many commodity areas. The domestic output classification is based on type of industry; on the other hand, the export and import classification system is more materials oriented. Also, there are a substantial number of imported commodities which have no comparable domestic output classification. The relationships shown in this report should be considered only as approximations, since, in addition to the problems mentioned above, there are also the following problems affecting the comparability of the three sets of data.

Valuation. There are different methods of valuation for the three types of data:

- *Domestic Output*— Valued at the point of production. It includes the net sales price, f.o.b. plant, after discounts and allowances, exclusive of freight charges and excise taxes.

- *Exports*— Valued at the point of exportation. It includes the selling price, or cost if not sold, and inland freight, insurance and other charges to the export point.

  Estimated producers' values of exports have also been developed. These values more closely approximate the values reported for domestic output because they exclude freight, insurance, and other charges applied from the producing plant to the export point.

- *Imports*— Valued at the first port of entry in the United States. It includes c.i.f. (cost, insurance, and freight), duty, and other charges to the import point.

Duplication in Quantity and Value of Output. Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at four-digit or broader levels may be understated. Where duplication is known to be substantial, the output data are appropriately noted in the table.

Low-Value Export and Import Transactions. Detailed commodity information is not included for individual export shipments valued at not more than $1,000. Generally, detailed commodity information is not included for individual import shipments valued at not more than $1,000. For textiles and textile products, gloves, footwear, and miscellaneous rubber and plastics products, detailed commodity information is not included for individual import shipments valued at not more than $250. This is believed to have only negligible effects on the statistics for the bulk of the commodities.

Manufacturers' Shipments, Not Specified by Kind. The value of manufacturers' shipments at the four-digit industry level often includes a small amount which is not distributed among the individual five-digit product classes. Export and import percentages at the more detailed levels might, therefore, be slightly overstated.

Time Lag Between Output and Exports. There will be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported, especially when intermediaries (wholesalers, exporters, etc.) are involved. Ordinarily, this type of discrepancy is insignificant in annual figures.

"Direct" vs "Total" Commodity Exports and Imports. Export and import data do not include materials which are incorporated into other more finished products and exported or imported in finished form. Thus, by showing only direct exports and imports, the relation of exports to output and imports to apparent consumption for intermediate products is considerably understated.

Used Commodities. With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

Geographic Area of Coverage. Import and export data reflect the movement of merchandise into and out of U.S. foreign trade zones, the U.S. Virgin Islands, and the U.S. customs territory (includes the 50 States, the District of Columbia, and Puerto Rico).

HISTORICAL NOTE

Data on copper-controlled materials have been collected by the Bureau of the Census since 1951. Historical data may be obtained from Current Industrial Reports (called Facts for Industry before 1959) available at your local Federal Depository Library. A list of these libraries may be obtained from the Bureau of the Census regional offices:

Office	Telephone
Atlanta, Georgia	(404) 347-2271
Boston, Massachusetts	(617) 223-2327
Charlotte, North Carolina	(704) 371-6162
Chicago, Illinois	(312) 353-6251
Dallas, Texas	(214) 767-0625
Denver, Colorado	(303) 236-2200
Detroit, Michigan	(313) 226-7742
Kansas City, Kansas	(816) 374-4601
Los Angeles, California	(213) 824-7317
New York, New York	(212) 264-3860
Philadelphia, Pennsylvania	(215) 597-4920
Seattle, Washington	(206) 442-7080

Historical data are also available on microfiche. For further information contact the Bureau of the Census, Data User Services Division, (301) 763-4100.

RELATED REPORTS

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Series	Frequency	Title
Current Industrial Reports		
M33E	Monthly	*Nonferrous Castings*
MA33L	Annually	*Insulated Wire and Cable*

Series	Frequency	Title
Other Industrial Reports		
M3-1	Monthly	*Manufacturers' Shipments, Inventories, and Orders*
(AS)	Annually	Annual Survey of Manufactures (ASM)
(MC)	Quinquennially	Census of Manufactures
Foreign Trade Reports		
EM 546 FT 446	Monthly Annually	*U.S. Exports—Schedule B—Commodity by Country*
IM 146 FT 246	Monthly Annually	*U.S. Imports for Consumption—TSUSA—Commodity by Country*

CONTACTS FOR DATA USERS

Subject Area	Contact	Phone Number
Current Industrial Report ITA9008	Carol Beasley	(301) 763-5434
Manufacturers' Shipments, Inventories, and Orders	Ruth Runyan	(301) 763-2502
Classification Systems Comparability	James Kristoff (ESD)	(301) 763-1935
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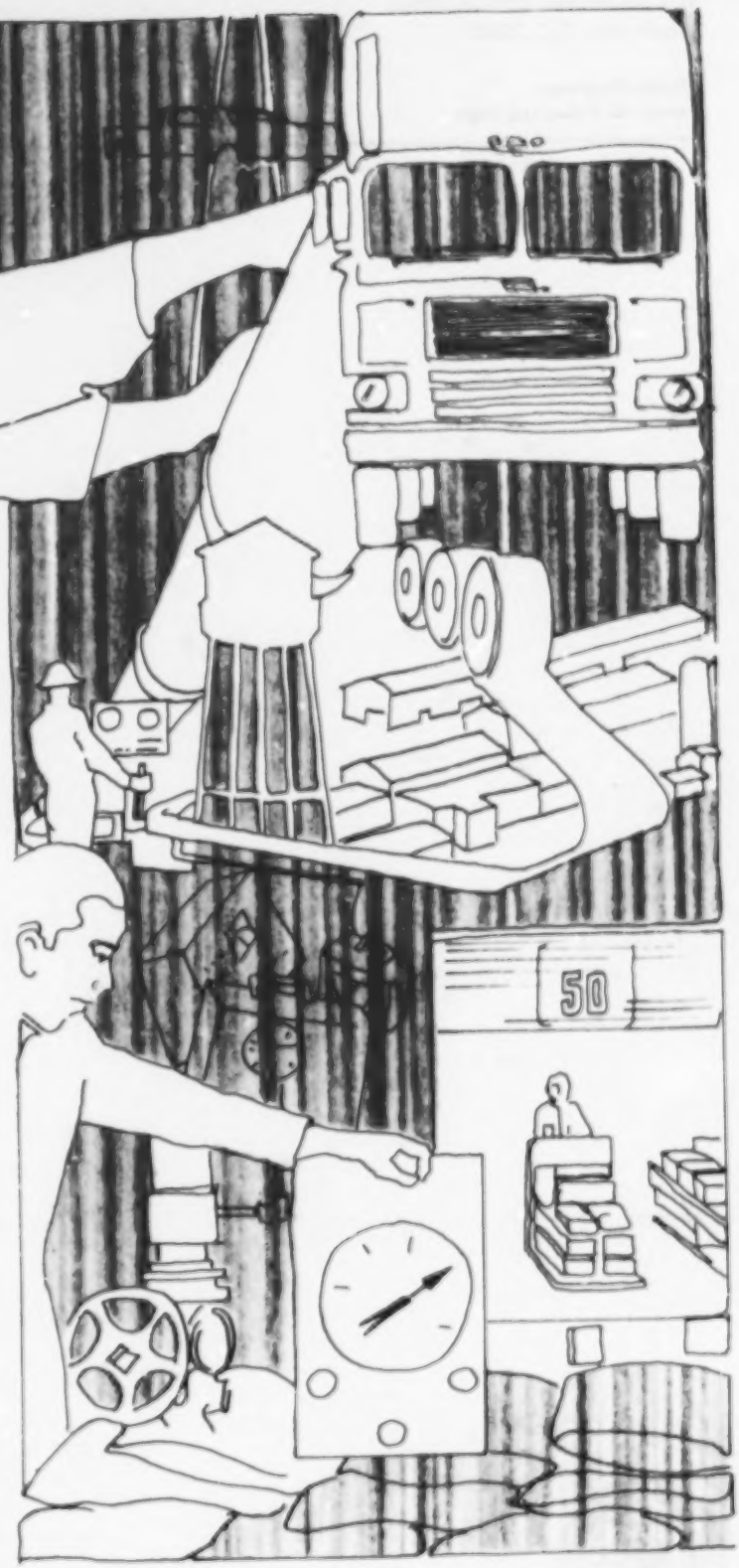
Current Industrial Reports



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